

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Teruo Amoh et al.

Application No.: National Phase of
PCT/JP2005/002758

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: SEMICONDUCTOR LIGHT EMITTING
ELEMENT MOUNTING MEMBER, AND
SEMICONDUCTOR LIGHT EMITTING
DEVICE EMPLOYING IT

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed:
(Check one of the boxes A-D)

- ☒ A. within three months of the filing date of the above-identified national application of within three months of the entry into the national stage of the above identified national application
- ☐ B. before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.
- ☐ C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary statement in box "i" below or paid the necessary fee in box "ii" below.

(check one of the boxes "i" and "ii" below:)

☐ i. Counsel states that, upon information and belief, each item of information listed herein was (check one of boxes (a) or (b))

☐ (a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ (b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

☐ ii. A check for the fee set forth in 1.17(p), presently believed to be \$180, is enclosed.

☐ D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant petitions under 37 C.F.R. 1.97(d) for the consideration of this IDS. Under 37 CFR 1.17(i) a check in the amount of \$180.00 is enclosed. Counsel certifies that, upon information and belief, each item of information listed herein was

(check one of the boxes "a" and "b" below:)

☐ (a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO/SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A, B and/or C and fill in blanks, if appropriate.)

- ☐ A. Pursuant to the Notice issued by the United States Patent and Trademark Office dated July 11, 2003 waiving the requirements of 37 C.F.R. § 1.98(a)(2)(i), a copy/copies of the United States Patent on PTO/SB08 is/are not being submitted.
- ☐ B. Document(s) _____ is (are) deemed substantially cumulative to document(s) _____, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
- ☐ C. Certain documents were previously cited by or submitted to the Office in the following prior applications, which are relied upon under 35 U.S.C. 120:

<<INSERT SERIAL NO. & FILING DATE>>

Applicant identifies these documents by attaching hereto copies of the forms PTO-892, PTO-1449 and/or PTO/SB/08 from the files of the prior application(s) or a fresh PTO/SB/08 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

- ☒ 3. Cite No(s). BA - BK are not in the English language. In accordance with 1.98(c), Applicant states:
- ☒ An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.
- ☐ The requirement for a concise explanation of the relevance of any foreign language document is satisfied by the attached search report; citation of the documents cited in the search report shall not be construed as an admission that they are or are considered to be, material to patentability of the subject matter claimed herein (See MPEP §609).
- ☐ A concise explanation of the relevance of document(s) _____ is set forth as follows: [Insert concise explanation of relevance]
- ☐ A concise explanation of the relevance of document(s) _____ can be found on page(s) _____ of the specification.
- ☐ A concise explanation of document(s) _____ can be found on the attached sheet.

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>			Complete If Known	
Application Number	Not Yet Assigned			
Filing Date	Concurrently Herewith			
First Named Inventor	Teruo Amoh			
Art Unit	N/A			
Examiner Name	Not Yet Assigned			
Attorney Docket Number	20239/0204318-US0			

Sheet	1	of	1
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U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passage or Relevant Figures Appear
	BA	JP-2004-111616-A	04-08-2004	TOYODA GOSEI CO LTD	Abstract Attached ✓
	BB	JP-05-017226-A	01-25-1994	NKK CORP	Abstract Attached ✓
	BC	JP-07-243027-A	09-19-1995	KOBE STEEL LTD	Abstract Attached ✓
	BD	JP-2003-209286-A	07-25-2003	NICHIA CHEM IND LTD	Abstract Attached ✓
	BE	JP-2004-079750-A	03-11-2004	FUJII PHOTO FILM CO LTD	Abstract Attached ✓
	BF	JP-2004-071675-A	03-04-2004	NICHIA CHEM IND LTD	Abstract Attached ✓
	BG	JP-2005-039194-A	02-10-2005	KYOCERA CORP	Abstract Attached ✓
	BH	JP-2004-296792-A	10-21-2004	KYOCERA CORP	Abstract Attached ✓
	BI	JP-09-293904-A	11-11-1997	NICHIA CHEM IND LTD	Abstract Attached ✓
	BJ	JP-2002-217458-A	08-02-2002	NGK INSULATORS LTD; YAO TAKAFUMI	Abstract Attached ✓
	BK	JP-2002-232017-A	08-16-2002	KYOCERA CORP	Abstract Attached ✓

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinda Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002758

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.⁷ H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int. Cl.⁷ H01L33/00, C23C14/00-14/58

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Jitsuyo Shinan Toroku Koho	1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2004-111616 A (Toyoda Gosei Co., Ltd.), 08 April, 2004 (08.04.04), Full text; Fig. 1 (Family: none)	1-11
Y	JP 6-17226 A (NKK Corp.), 25 January, 1994 (25.01.94), Par. Nos. [0014], [0017]; Fig. 2 (Family: none)	1
Y	JP 7-243027 A (Kobe Steel, Ltd.), 19 September, 1995 (19.09.95), Par. No. [0015]; Fig. 2 (Family: none)	1

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"A" document member of the same patent family

Date of the actual completion of the international search
15 March, 2005 (15.03.05)

Date of mailing of the international search report
26 April, 2005 (26.04.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002758

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-209286 A (Nichia Chemical Industries, Ltd.), 25 July, 2003 (25.07.03), Par. Nos. [0030], [0031]; Fig. 1 (Family: none)	2
Y	JP 2004-079750 A (Fuji Photo Film Co., Ltd.), 11 March, 2004 (11.03.04), Par. Nos. [0022] to [0029]; Fig. 2 (Family: none)	7, 8
A	JP 2004-71675 A (Nichia Chemical Industries, Ltd.), 04 March, 2004 (04.03.04), Full text; all drawings (Family: none)	1-11
E, A	JP 2005-39194 A (Kyocera Corp.), 10 February, 2005 (10.02.05), Full text; all drawings (Family: none)	1-11
E, A	JP 2004-296792 A (Kyocera Corp.), 21 October, 2004 (21.10.04), Full text; all drawings (Family: none)	1-11